

SRHS - Math 1 - Assignment #Review 8B

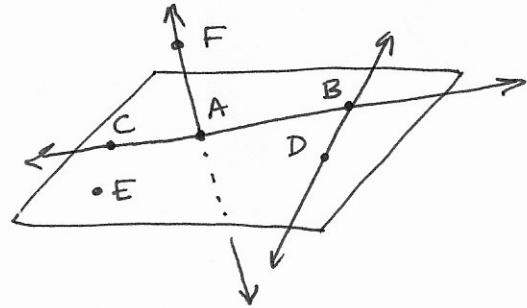
Be sure to show all your work and thinking in the space provided. **NO WORK = NO CREDIT**

Midpoint: $\left(\frac{x_1+x_2}{2}, \frac{y_1+y_2}{2}\right)$

Distance = $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

1. Use the figure to the right.

- Give a different name for \overline{AB} .
- Name three points that are collinear.
- Name a point that is *not* coplanar with C, D, and E
- Name two *different* lines



2. Point B is between A and C on \overline{AC} .

Use the information to write an equation in terms of x. Then find the length of \overline{AB}

$$AB = 3x + 7$$

$$BC = 10$$

$$AC = 5x + 11$$

Show work for #2 here:

The length of \overline{AB} = _____

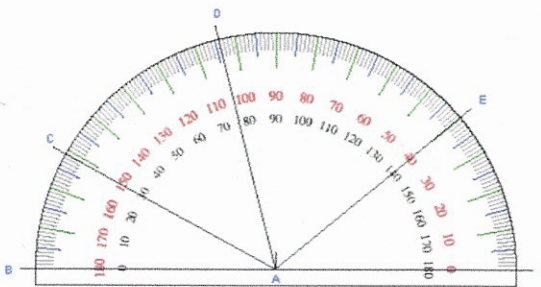
3. The endpoints of \overline{JK} are J (3, 11) and K (-1, 5)

- Find the coordinates of the midpoint.
- Find the length of \overline{JK} using the distance formula

Show work for #3a and #3b here:

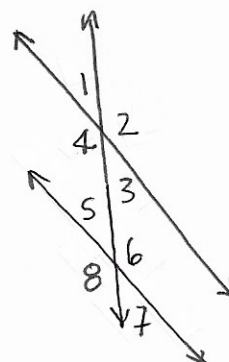
4. Use the figure to the right

- Find the $m \angle EAF$
- Find the $m \angle BAC$
- Find the $m \angle DAE$

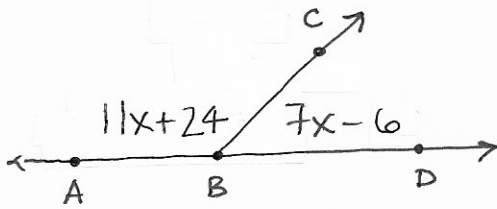


5. Use the figure to the right.

- Name a vertical angle pair that includes $\angle 2$
- Name a linear angle pair that includes $\angle 8$



6. a) Find $m\angle ABC$



b) If $\angle X$ and $\angle Y$ are supplementary, and $m\angle X = 98^\circ$, find $m\angle Y$.

7. Write the equation of the line that contains the points $(3, 11)$ and $(-1, 5)$

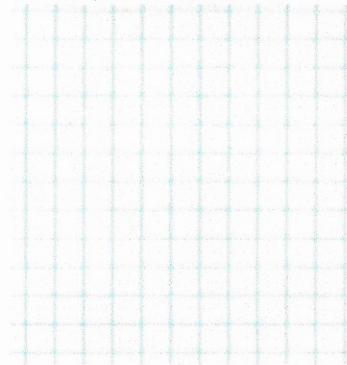
Show work for #7 here:

8. For the function: $y = 2(3)^x$

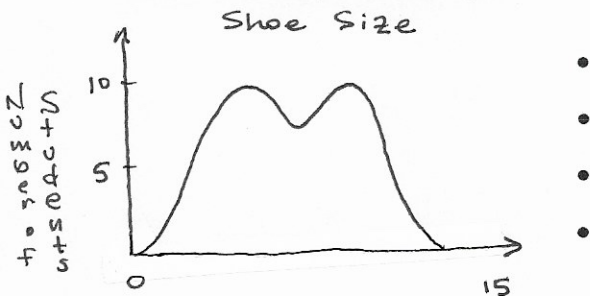
a) Complete the table:

x	y
-2	
-1	
0	
1	
2	

b) Graph the function:



9. Describe the shape, center, spread and outliers.



10. Use the two-way table about pizza preferences:

		Grade		
		11th	12th	Total
Pizza	Cheese	17	29	46
	Veggie	8	11	19
	Total	25	40	65

a) What percent of students prefer veggie pizza?

b) What percent of students are 12th grade students?

c) What percent of those who prefer cheese pizza are 11th grade students?

d) Of those who are seniors, what percent prefer veggie pizza?